0570
0702
10

ENTERED

OIPE

RAW SEQUENCE LISTING

DATE: 07/16/2002 P.6

PATENT APPLICATION: US/10/047,264A

TIME: 16:41:16

Input Set : A:\Gi-532.app
Output Set: N:\CRF3\07162002\J047264A.raw

```
 3 <110> APPLICANT: Fouser, Lynette
 4        Liu, Wei
 5        Deng, Bijia
 7 <120> TITLE OF INVENTION: TYPE 2 CYTOKINE RECEPTOR AND NUCLEIC ACIDS ENCODING
 8        SAME
10 <130> FILE REFERENCE: 22058-532
12 <140> CURRENT APPLICATION NUMBER: 10/047264A
13 <141> CURRENT FILING DATE: 2002-01-14
15 <150> PRIOR APPLICATION NUMBER: 60/261442
16 <151> PRIOR FILING DATE: 2001-01-12
18 <150> PRIOR APPLICATION NUMBER: 60/267021
19 <151> PRIOR FILING DATE: 2001-02-06
21 <150> PRIOR APPLICATION NUMBER: 60/270835
22 <151> PRIOR FILING DATE: 2001-02-23
24 <160> NUMBER OF SEQ ID NOS: 39
26 <170> SOFTWARE: PatentIn Ver. 2.1
28 <210> SEQ ID NO: 1
29 <211> LENGTH: 696
30 <212> TYPE: DNA
31 <213> ORGANISM: Human
33 <400> SEQUENCE: 1
34 atgatgccta aacattgctt tctaggcttc ctcatcagtt tcttccttac tggtgtagca 60
35 ggaactcagt caacgcatga gtctctgaag cctcagaggg tacaatttca gtcccgaaat 120
36 tttcacaaca ttttgcaatg gcagcctggg agggcactta ctggcaacag cagtgtctat 180
37 tttgtgcagt acaaaatata tggacagaga caatggaaaa ataaagaaga ctgttggggt 240
38 actcaagaac tctcttgtga ccttaccagt gaaacctcag acatacagga accttattac 300
39 gggagggtga gggcggcctc ggctgggagc tactcagaat ggagcatgac gccgcggttc 360
40 actccctggt gggaaacaaa aatagatcct ccagtcatga atataaccca agtcaatggc 420
41 tctttgttgg taattctcca tgctccaaat ttaccatata gataccaaaa ggaaaaaaat 480
42 gtatctatag aagattacta tgaactacta taccgagttt ttataattaa caattcacta 540
43 gaaaaggagc aaaaggttta tgaaggggct cacagagcgg ttgaaattga agctctaaca 600
44 ccacactcca gctactgtgt agtggctgaa atatatcagc ccatgttaga cagaagaagt 660
45 cagagaagtg aagagagatg tgtggaaatt ccatga                            696
48 <210> SEQ ID NO: 2
49 <211> LENGTH: 231
50 <212> TYPE: PRT
51 <213> ORGANISM: human
53 <400> SEQUENCE: 2
54 Met Met Pro Lys His Cys Phe Leu Gly Phe Leu Ile Ser Phe Phe Leu
55  1               5                  10                  15
57 Thr Gly Val Ala Gly Thr Gln Ser Thr His Glu Ser Leu Lys Pro Gln
58                 20                  25                  30
60 Arg Val Gln Phe Gln Ser Arg Asn Phe His Asn Ile Leu Gln Trp Gln
```

RAW SEQUENCE LISTING   DATE: 07/16/2002
PATENT APPLICATION: US/10/047,264A   TIME: 16:41:16

        Input Set : A:\Gi-532.app
        Output Set: N:\CRF3\07162002\J047264A.raw

```
61           35                      40                       45
63 Pro Gly Arg Ala Leu Thr Gly Asn Ser Ser Val Tyr Phe Val Gln Tyr
64      50                      55                  60
66 Lys Ile Tyr Gly Gln Arg Gln Trp Lys Asn Lys Glu Asp Cys Trp Gly
67  65                      70                  75                  80
69 Thr Gln Glu Leu Ser Cys Asp Leu Thr Ser Glu Thr Ser Asp Ile Gln
70              85                      90                  95
72 Glu Pro Tyr Tyr Gly Arg Val Arg Ala Ala Ser Ala Gly Ser Tyr Ser
73          100                     105                 110
75 Glu Trp Ser Met Thr Pro Arg Phe Thr Pro Trp Trp Glu Thr Lys Ile
76          115                     120                 125
78 Asp Pro Pro Val Met Asn Ile Thr Gln Val Asn Gly Ser Leu Leu Val
79      130                     135                 140
81 Ile Leu His Ala Pro Asn Leu Pro Tyr Arg Tyr Gln Lys Glu Lys Asn
82 145                     150                 155                 160
84 Val Ser Ile Glu Asp Tyr Tyr Glu Leu Leu Tyr Arg Val Phe Ile Ile
85              165                     170                 175
87 Asn Asn Ser Leu Glu Lys Glu Gln Lys Val Tyr Glu Gly Ala His Arg
88          180                     185                 190
90 Ala Val Glu Ile Glu Ala Leu Thr Pro His Ser Ser Tyr Cys Val Val
91          195                     200                 205
93 Ala Glu Ile Tyr Gln Pro Met Leu Asp Arg Arg Ser Gln Arg Ser Glu
94      210                     215                 220
96 Glu Arg Cys Val Glu Ile Pro
97 225                     230
```

100 <210> SEQ ID NO: 3
101 <211> LENGTH: 792
102 <212> TYPE: DNA
103 <213> ORGANISM: human
105 <400> SEQUENCE: 3
106 atgatgccta aacattgctt tctaggcttc ctcatcagtt tcttccttac tggtgtagca 60
107 ggaactcagt caacgcatga gtctctgaag cctcagaggg tacaatttca gtcccgaaat 120
108 tttcacaaca ttttgcaatg gcagcctggg agggcactta ctggcaacag cagtgtctat 180
109 tttgtgcagt acaaaatcat gttctcatgc agcatgaaaa gctctcacca gaagccaagt 240
110 ggatgctggc agcacatttc ttgtaacttc ccaggctgca gaacattggc taaatatgga 300
111 cagagacaat ggaaaaataa agaagactgt ggggtactc aagaactctc ttgtgacctt 360
112 accagtgaaa cctcagacat acaggaacct tattacggga gggtgagggc ggcctcggct 420
113 gggagctact cagaatggag catgacgccg cggttcactc cctggtggga aacaaaaata 480
114 gatcctccag tcatgaatat aacccaagtc aatggctctt tgttggtaat tctccatgct 540
115 ccaaatttac catatagata ccaaaaggaa aaaaatgtat ctatagaaga ttactatgaa 600
116 ctactatacc gagtttttat aattaacaat tcactagaaa aggagcaaaa ggtttatgaa 660
117 ggggctcaca gagcggttga aattgaagct ctaacaccac actccagcta ctgtgtagtg 720
118 gctgaaatat atcagcccat gttagacaga agaagtcaga gaagtgaaga gagatgtgtg 780
119 gaaattccat ga   792
122 <210> SEQ ID NO: 4
123 <211> LENGTH: 263
124 <212> TYPE: PRT
125 <213> ORGANISM: human
127 <400> SEQUENCE: 4

RAW SEQUENCE LISTING   DATE: 07/16/2002
PATENT APPLICATION: US/10/047,264A   TIME: 16:41:16

Input Set : A:\Gi-532.app
Output Set: N:\CRF3\07162002\J047264A.raw

```
128 Met Met Pro Lys His Cys Phe Leu Gly Phe Leu Ile Ser Phe Phe Leu
129  1               5                  10             15
131 Thr Gly Val Ala Gly Thr Gln Ser Thr His Glu Ser Leu Lys Pro Gln
132             20              25              30
134 Arg Val Gln Phe Gln Ser Arg Asn Phe His Asn Ile Leu Gln Trp Gln
135         35              40                  45
137 Pro Gly Arg Ala Leu Thr Gly Asn Ser Ser Val Tyr Phe Val Gln Tyr
138         50              55              60
140 Lys Ile Met Phe Ser Cys Ser Met Lys Ser Ser His Gln Lys Pro Ser
141  65                  70                  75                  80
143 Gly Cys Trp Gln His Ile Ser Cys Asn Phe Pro Gly Cys Arg Thr Leu
144                 85                  90                  95
146 Ala Lys Tyr Gly Gln Arg Gln Trp Lys Asn Lys Glu Asp Cys Trp Gly
147             100             105             110
149 Thr Gln Glu Leu Ser Cys Asp Leu Thr Ser Glu Thr Ser Asp Ile Gln
150         115             120             125
152 Glu Pro Tyr Tyr Gly Arg Val Arg Ala Ala Ser Ala Gly Ser Tyr Ser
153         130             135             140
155 Glu Trp Ser Met Thr Pro Arg Phe Thr Pro Trp Trp Glu Thr Lys Ile
156 145             150             155                 160
158 Asp Pro Pro Val Met Asn Ile Thr Gln Val Asn Gly Ser Leu Leu Val
159                 165             170             175
161 Ile Leu His Ala Pro Asn Leu Pro Tyr Arg Tyr Gln Lys Glu Lys Asn
162             180             185             190
164 Val Ser Ile Glu Asp Tyr Tyr Glu Leu Leu Tyr Arg Val Phe Ile Ile
165         195             200             205
167 Asn Asn Ser Leu Glu Lys Glu Gln Lys Val Tyr Glu Gly Ala His Arg
168     210             215             220
170 Ala Val Glu Ile Glu Ala Leu Thr Pro His Ser Ser Tyr Cys Val Val
171 225             230             235             240
173 Ala Glu Ile Tyr Gln Pro Met Leu Asp Arg Arg Ser Gln Arg Ser Glu
174             245             250             255
176 Glu Arg Cys Val Glu Ile Pro
177             260
180 <210> SEQ ID NO: 5
181 <211> LENGTH: 393
182 <212> TYPE: DNA
183 <213> ORGANISM: human
185 <400> SEQUENCE: 5
186 atgatgccta aacattgctt tctaggcttc ctcatcagtt tcttccttac tggtgtagca 60
187 ggaactcagt caacgcatga gtctctgaag cctcagaggg tacaatttca gtcccgaaat 120
188 tttcacaaca ttttgcaatg gcagcctggg agggcactta ctggcaacag cagtgtctat 180
189 tttgtgcagt acaaaatata tggacagaga caatggaaaa ataaagaaga ctgttggggt 240
190 actcaagaac tctcttgtga ccttaccagt gaaacctcag acatacagga accttattac 300
191 gggagggtga gggcggcctc ggctgggagc tactcagaat ggagcatgac gccgcggttc 360
192 actccctggt gggaaagagc aaaaggttta tga 393
195 <210> SEQ ID NO: 6
196 <211> LENGTH: 130
197 <212> TYPE: PRT
```

RAW SEQUENCE LISTING   DATE: 07/16/2002
PATENT APPLICATION: US/10/047,264A   TIME: 16:41:16

Input Set : A:\Gi-532.app
Output Set: N:\CRF3\07162002\J047264A.raw

```
198 <213> ORGANISM: human
200 <400> SEQUENCE: 6
201 Met Met Pro Lys His Cys Phe Leu Gly Phe Leu Ile Ser Phe Phe Leu
202  1           5                  10                  15
204 Thr Gly Val Ala Gly Thr Gln Ser Thr His Glu Ser Leu Lys Pro Gln
205              20                  25                  30
207 Arg Val Gln Phe Gln Ser Arg Asn Phe His Asn Ile Leu Gln Trp Gln
208              35                  40                  45
210 Pro Gly Arg Ala Leu Thr Gly Asn Ser Ser Val Tyr Phe Val Gln Tyr
211      50                  55                  60
213 Lys Ile Tyr Gly Gln Arg Gln Trp Lys Asn Lys Glu Asp Cys Trp Gly
214  65                  70                  75                  80
216 Thr Gln Glu Leu Ser Cys Asp Leu Thr Ser Glu Thr Ser Asp Ile Gln
217              85                  90                  95
219 Glu Pro Tyr Tyr Gly Arg Val Arg Ala Ala Ser Ala Gly Ser Tyr Ser
220              100                 105                 110
222 Glu Trp Ser Met Thr Pro Arg Phe Thr Pro Trp Trp Glu Arg Ala Lys
223          115                 120                 125
225 Gly Leu
226      130
229 <210> SEQ ID NO: 7
230 <211> LENGTH: 29
231 <212> TYPE: DNA
232 <213> ORGANISM: Artificial Sequence
234 <220> FEATURE:
235 <223> OTHER INFORMATION: Description of Artificial Sequence: PCR Primer
237 <400> SEQUENCE: 7
238 tcatggaatt tccacacatc tctcttcac                                      29
241 <210> SEQ ID NO: 8
242 <211> LENGTH: 341
243 <212> TYPE: PRT
244 <213> ORGANISM: human
246 <400> SEQUENCE: 8
247 Met Ala Ala Ala Leu Arg Gly Ala Leu Trp Gly Cys Leu Leu Leu Cys
248  1           5                  10                  15
250 Val Ser Gly Ile Val Pro Lys Pro Arg Asn Ala Arg Ile Ser Ser Val
251              20                  25                  30
253 Asn Phe Arg Ser Val Leu Leu Trp Asp Pro Pro Gly Val Arg Lys Gly
254              35                  40                  45
256 Asn Leu Ser Tyr Thr Val Gln Ala Lys Ser Ile Phe Pro Lys Gln Asn
257      50                  55                  60
259 Phe Asn Asn Val Thr Thr Asn Leu Asn Val Thr Glu Cys Asp Val Ser
260  65                  70                  75                  80
262 Ser Leu Ser Val Tyr Gly Ala Tyr Val Leu Arg Val Arg Thr Glu Trp
263              85                  90                  95
265 Glu Asp Glu His Ser Asp Trp Ala Val Val Arg Phe Lys Pro Met Ala
266              100                 105                 110
268 Asp Thr Val Ile Gly Pro Pro Ser Val Asn Val Lys Ser Glu Ser Gly
269          115                 120                 125
```

```
271 Thr Leu His Val Asp Phe Thr Gly Pro Ala Ala Asp Arg Glu His Asp
272         130                 135             140
274 Lys Trp Ser Leu Lys Gln Tyr Tyr Gly Ser Trp Ile Tyr Arg Ile Leu
275 145                 150             155     ·           160
277 Tyr Trp Lys Lys Gly Ser Asn Lys Lys Val Ile His Ile Asp Thr Lys
278             165             170                 175
280 His Asn Ser Glu Ile Leu Ser Gln Leu Glu Pro Trp Thr Ile Tyr Cys
281             180             185             190
283 Ile Gln Val Gln Gly Val Ile Pro Glu Trp Asn Lys Thr Gly Glu Arg
284         195             200             205
286 Ser Gln Glu Leu Cys Glu Gln Thr Thr His Asn Gly Val Thr Pro Val
287         210             215             220
289 Trp Ile Val Val Thr Val Leu Leu Gly Ser Met Leu Ala Val Ile Ile
290 225             230             235             240
292 Ser Val Pro Val Cys Phe Phe Ala Phe Trp Tyr Leu Tyr Arg Phe Thr
293             245             250             255
295 Lys His Val Phe Phe Pro Ser Tyr Ile Phe Pro Gln His Leu Lys Glu
296             260             265             270
298 Phe Phe Ser Pro Val Pro Gln Glu Glu His His Phe His Asp Trp Leu
299         275             280             285
301 Thr Val Ile Ser Glu Glu Pro Lys Ser Gln Arg Asp Glu Thr Val Glu
302         290             295             300
304 Glu Ala Ser Arg Thr Ala Glu His His Gln Asp Ser Lys Gln Glu Ile
305 305             310             315             320
307 Ser Asp Ser Glu Ile Leu Pro Pro Leu Glu Arg Asp Gln Thr Leu Leu
308             325             330             335
310 Thr Leu Gln Ser Gly
311             340
314 <210> SEQ ID NO: 9
315 <211> LENGTH: 26
316 <212> TYPE: DNA
317 <213> ORGANISM: Artificial Sequence
319 <220> FEATURE:
320 <223> OTHER INFORMATION: Description of Artificial Sequence: PCR Primer
322 <400> SEQUENCE: 9
323 atgatgccta aacattgctt tctagg                                    26
326 <210> SEQ ID NO: 10
327 <211> LENGTH: 29
328 <212> TYPE: DNA
329 <213> ORGANISM: Artificial Sequence
331 <220> FEATURE:
332 <223> OTHER INFORMATION: Description of Artificial Sequence:PCR Primer
334 <400> SEQUENCE: 10
335 tcatggaatt tccacacatc tctcttcac                                 29
338 <210> SEQ ID NO: 11
339 <211> LENGTH: 728
340 <212> TYPE: DNA
341 <213> ORGANISM: human
343 <400> SEQUENCE: 11
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 07/16/2002
PATENT APPLICATION: US/10/047,264A   TIME: 16:41:18

Input Set : **A:\Gi-532.app**
Output Set: **N:\CRF3\07162002\J047264A.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:13; Xaa Pos. 7,10
Seq#:14; Xaa Pos. 11,14
Seq#:15; Xaa Pos. 2,9,13
Seq#:16; Xaa Pos. 12
Seq#:17; Xaa Pos. 2,7,18
Seq#:18; Xaa Pos. 7,9,20
Seq#:19; Xaa Pos. 5,8,13
Seq#:33; Xaa Pos. 139

VERIFICATION SUMMARY　　　　　　　　　　　DATE: 07/16/2002
PATENT APPLICATION:　 US/10/047,264A　　　　TIME: 16:41:18

Input Set : **A:\Gi-532.app**
Output Set: **N:\CRF3\07162002\J047264A.raw**

```
L:427  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:447  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:472  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:487  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:512  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:515  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:16
L:540  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:543  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:16
L:568  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:1204 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:128
```